

1 (1) GENERAL INFORMATION  
2 (2) INFORMATION FOR SEQ. ID NO.1:  
3 (i) SEQUENCE CHARACTERISTICS:  
4 (A) LENGTH: 5001 BASE - #PAIRS  
5 (B) TYPE: NUCLEIC ACID  
6 (C) STRANDEDNESS: SINGLE  
7 (D) TOPOLOGY: LINEAR  
8 (ii) MOLECULE TYPE: GENOMIC DNA  
9 (xi) SEQUENCE DESCRIPTION: SEQ. ID NO.1

10

11

12 GTTGCTGTTGCTGTTCTAGAACAAATCCATACACACGATTAGATTGAGCTCACCTCAGCT  
13 CACGGAAAATTCTTCAGGCCCAACCCCTCAGCTCCACCCCTGCCTTCTGGAAAAATGCA  
14 CTCGTGGCTCTACAGGGTGAGCAACCAGGGCGCAACTGCAGGGCATGCTCATACAGAAC  
15 ATGCTGCCGCAGCTGATCATCGCTCAGCAGTCAGTCAAGCTGCGACTGGCAGCTTGCA  
16 TTGTAGCTGGTGTACAACATTCCAGAACGCCGACTGGTATTGTTGCAATTGTCACAATTG  
17 TGACGCCCATGCAAGGCCACGAGCAATATCGACTGCAGAACCCCTGTGCTGGATCTACG  
18 GGAATGATTGGATTGGACGATGTCAGGGCCTGCACAGCACCGTACCAAAGCTTGC  
19 CTTTAGCAGCGGCTGCTAGCAACCACGAGATAAGCCATGGCCACAACCTTGCAACATCGC  
20 GCATCTGCAGCCGCCGATGCATGCAAGGTCGGTGTGCGGTTCTGCTTGCT  
21 CAGGCAACACAGCCTCCAGGTGTTCAACTTGAAGGTGTGACACCACGGTGTGCTGGCAG  
22 CTGGCCATTGGTTAACCCAAGCAGTACAGCGCTGTCAGCTTCATCCCCGCCTGGTTAC  
23 TGTGATGTATGTGTTCTGATCAAGCGTCTCCATGCCGTCGAACAGAACTGCGCTGT  
24 AAGCTTACGCAGCCCCAACGGCTCCGAGCAGCATGCCCTTAAGTGGCGGGAAACTGCC  
25 AGGGACGGTGTAAAGGGGCCATTAGCGCTCGATACTGTAAGATTGTTAGATGAAACA  
26 GAAATACACCTCCGGAGCTGCGAGTAGCGAGGTGATTTGCATAAGGGATCCACACTGTT  
27 GTGGGCGCACGTCCAAGAAATGTTACCGTTGCGATTGACAGCAAACATCATGATCAT  
28 CAAAGGAGTGCATGACAGTCAACGATCACCAGGTGATTACGTTGTCAGTACAAGCGC  
29 CCTCTACGTGCGCCTGGGCCTACATATGCCCTGCTGTGGGAGTACCCGTGCACAACAGA  
30 GCGTTAGAGATACTTCATAGCTGCAACTAGACTACCTTACCCCTAACGAAATCACCTAG  
31 ACCGACAGTGTGCGAGTAGCTGCGACCCAAACGTGATGGCGAGCGGATTGCTTCTCAAGC  
32 AGCGCTCGGTATGCCCTGAGTGGCAACCGGGAGGTGCGTATGCTGTTCTGTCGCCGCC  
33 AGTGAACAGGCGGGCTGTGGTGGCAGCAGGTGCGCTCTCTGAAGGGCAGCTAGGGCTG  
34 TTTCGGGCAGTGCATGCCGCCATTGGGTTGCTCGGAGCAATAATATGTA  
35 GCTCTCGTGGAGCTGTGTTGCGCCACGTGCTTGCGCTTGGCGCTGTTGACCCGGACCCT  
36 CCACGTTGCTTCTGCCGCTGCAAGAGCGCAGGCCCTGTTGCGGGCAGCTGGCCCAA  
37 CAGCAGAATGTGATTGCCACCAGCTCCCGCCAAAGGCCCCGCACTGGCAGCAGACGC  
38 TAGATGAGCTAGGTGAGCTGCGTGACATTGGAAGTCTGGTGTCCGCAACTGCTCTGTG

1 CATGCTGACATCCGAATCAAGTGCCAAGAAGCAGGGCTCGTGTGGTCATTGTGGCA  
2 GGTTTGCAGCAGCTTGCGTGTCAAGCAGCAGCATGTGGCTGACACATACTGCTGCCG  
3 TGCTTCTGCTGTCTGCAGCCAAGCCTAACGGAGCAGCGAACGGTGATGATGCCAGATC  
4 GCACCAGCAGTGCAGTGGCTATTGCAGAGACCATGGACTCAACCCCTGGGATGTGACA  
5 GTTGGCCAGATGGTGACCGGCTGCGCATGCTGGCTTGATTATGTGTTGGTGAGTTA  
6 CACAGTGTGTTAGTGCAGCAGTCCAGAGCAGCTGTGCTAGTTGATGTTGATCCTTG  
7 GGCCTGGATATCCAGCTGGACGTCTAACACTGTTTTTAGCGTCCGGAGTGGCTAGT  
8 CAACAACAGTGAGCGCTGTATCATGTGGTTGTTCATGCGTGCATGCATGTGGCC  
9 TAACCAGCTGCTGCCAGCGTGTGCATGTGCTGGTGTGTTGGTGTGGCTGGTGAG  
10 CAGCCGCTTCTGTGTTATGTTGGCTCCTGTTCCATGCATGTTCTTGCTGCTGTG  
11 ACTCATCTACTGCTGCTGGTGCATCTGCTGCTGCAGACACGCTGTTGGTGCTGAC  
12 CTCACCATCATGGAGGAGGGCACAGAGCTACGGCACAGGCTTCAGGTAGTGGTGTG  
13 GTACTGCTGTGTTATTGCCATGAGGGACTTTGGTGTGCCATCAACAGCTCACACTT  
14 GTAGTTACTGGCGGTAGCTGCAGCGACAGGTGGATGCATATCCTGCAGCACATATCCTGC  
15 AGCAGGCAGCAGCATTGATGCATGCCCTTGCTCCCTGTCCTTGCTGACAGT  
16 GCTGCACACTAGGCCAGCCACACCAGGGATGTCATAACAATCAGTCTGATGTCATCCA  
17 CGGTGTTTAAACACATCTTGCTGCTGCTGCTGCAGGACCACCTGGAGCAGCACC  
18 CCAACAAGGAGGAGCCGCTGCCATGTTCAACCAGGGATGTCATAACAATCAGTCTGATGTCATCCA  
19 TGGAGAAGTCCAACCCCGAGCTCATCCCTACCTGTCTTGCAAGTCGCCCCAGATGA  
20 TGCTGGCGCAGTCATCAAGAACTACTTCGCTGCCGAGGCCGGCGCAAGCCTGAGGACA  
21 TCTGCAACGTGAGCGTGTGATGCCCTGCGTGCAGCAGGGCGAGGCTGACCGCGAGTGGT  
22 TCAACACCACAGGGCTGGCGCGAAGTGGACCACGTCATGACAACGTCAGAGCTGG  
23 GCAAGATCTTGAGCGCGGAATCAAGCTGAACGACCTGCAAGGAGTCGCCCTTGACA  
24 ACCCCGTCGGCGAGGGCAGCGCGGCGGTGCTGTTGGCACCACGGAGGCGTGTGATGG  
25 AGGCGGGCGTGCACCGTGTACGAAGTGGTGAGTGTCACTGTGGCGGCAGCTGTGGTT  
26 GTATCGCAGCAGCAGTTGCGCATTGGCAGTAGTGCAGCATGTGCTGGCATGCGCAGAG  
27 TTGCGCCCACCTGTGTTGGATGTGAGCTGGTTGCAAGGGCGCCATCTGCAGAACGCG  
28 TGCACCTCTGCATACTGCTGCTGCTGATCTACTGCCCTGCCCTTACCAACCGCCACC  
29 CGTAATAATCTCTCTGCTGCACTAGCCCTAGACAGTGCAGACGTTGACGCTTCTGCT  
30 GCCGTGTTGTGCATCTCACCGCACCTGCTGCACCGCAGGTACACAGAACGCTTG  
31 CCGCATCGTCTTGAGGACGTGCGCGGCTGGAGGGCATCAAGGAGTCCACGCTGCACCT  
32 CACCCCAGGCCACCAGCCCTTCAAGGCCCTTGCAAGGCGCAGACGGCACCGGCATCAC  
33 CCTCAACATCGCGTCGCAACGCCCTCGCAATGCCAAGAACGCTCATCAAGCAGCTGGC  
34 TGCAGGCAGAGCAAGTACGACTTCATCGAGGTATGCCCTGCCCGGGCTGCATCGG  
35 CGGCGGGGCCAGCCCGCAGCGCGAACAGCAGATCCTGCAGAACGCGCAGGCGGCAT  
36 GTACGACCTGGACGAGCGCGCGGTGATCCGGCGCAGCCACGAGAACCGCTGATTGGCGC  
37 GCTGTATGAGAAGTTCCTGGCGAGCCAAACGCCACAAGGCGCACGAGCTGCTGCACAC  
38 GCACTACGTGGCCGGCGGTGCCGATGAGAAGTGAAGCGGTGGCTGGTGTGCTGGCT

2010-2011-2012-2013-2014

1 GCGGCAGAACGGTGGCATGGTGGTGGGTGCTGCATGGTGGTGCCTCGTG  
2 CAGCATGGTGGTTGCGGTTGTGATGTTGGCATGCTGCACGGAGGTGTTGCATGGTT  
3 ATGGATATGGTCAGGTGCTGTGCTGCCATGCCATAAGCACCTGTGACCCTGTGC  
4 GATGCATAAAATAGATATTGCCATTGGTCCAGGCTGGTGGCAGTGGCTGGTAA  
5 CAGGGGAGTGTGTGTTGTGCTTCATTGTCGGTGTGTTCTGCTGCATGTATTGT  
6 AGTGAATGGTTATGCACGCCATGCGCACCGCTCCTCGTGCACAGTGCACA  
7 ACGCACAGCGTACAGCTGCAGGACTTGCGGAAAAACACTGTTACTGGTACGGC  
8 TGAAGCAGCGATGGAGAGAATGGATTGCTGCTATCTCACAGGGCGTGGCTGCTGCA  
9 TCGCCATGGCATGCCCTGTTGCACGCAATTGCCTGCGTAATTGATAGTGGCAGCACT  
10 GAGGCAGCTGCAAGGCCCTCTGCCAGCGCTGTTGTGCTATCTGTGTTACAGGCAG  
11 CTGCATTGAAGGCAAGGGGTTGCCATCACTCACTTGATCACTCACTTGAAAGCAGG  
12 CTTCCATCCATGTATTGGTCAACGCAGTGAAGTTCTTTGTCACCAGGCAGCAGTAT  
13 TGTGTGCACACTACTTGCTATGGAGATGACAGCAGCATCAATCTCAAGCATGATGAAAGC  
14 GTATGTTGATCAGTCCCCATTGCAAGACTCTTAAGAGCTTACCTCTCAGGGTTG  
15 CAGCAGGTGGTGGTCAGCCAGTTGAGGGAGTGTGGCTGTTGTCTGCCACCATGTGAG  
16 TATTGAAACCACCATCCTGAGCTAAGTGTTCAGGCATCTACCCCTCATACCCCGCTACCC  
17 TGCTACTGGAGTTCGTTCATTGTATTGGCAGCGTTACTAATTAGTAATGGCGCTT  
18 GAGCGAGGCATGCTTGATATGTATGCCTTAGGAGAGTGTGAGCTCAACTCAATTCTCAT  
19 AAGTGTAAAGCCACACAACGG  
20

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2 (2) INFORMATION FOR SEQ. ID NO.2:  
3 (i) SEQUENCE CHARACTERISTICS:  
4 (A) LENGTH: 5208 BASE - #PAIRS  
5 (B) TYPE: NUCLEIC ACID  
6 (C) STRANDEDNESS: SINGLE  
7 (D) TOPOLOGY: LINEAR  
8 (ii) MOLECULE TYPE: GENOMIC DNA  
9 (xi) SEQUENCE DESCRIPTION: SEQ. ID NO.2

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12 GATGATATGGATCGTCGTGGTGCTCAAGCTCATGGTTTGGCTGGCCGCCGACGCTG  
13 TCCCGGAAGCACCAGCAGCAGCAGGGCCAGGGGTGGTGTGATGATGTGGCGCGGTGT  
14 ATGGAGGTGGCACCTGTATGTTCATCTGGCGCTTAATTGCGTTAACCCATTGAGCCC  
15 ACTTCGAGGCCAAGTCGATTGGTGGCGTGAGATCCGCCTACCCCGGTTACTGCACGT  
16 GCAGGAGTGGTGTGCAGCAGTAGTCGGCAGGGTGTCCCCAGGTATTGTGGCGTTGTCGC  
17 ACGGTATGCCGGTGCAGTGCTCAGGTGCGTAAAGCGGCGTCGCGGTGTTGGTCGCAAC  
18 CGGATGCTGAAGCCGAAATCGCTCGCAGGTGCGTAAAGCGGCGTCGCGGTGTTGGGTGA  
19 GCTTGCTGGCAGCGTAGAACCGCTGTGGCGGACACACGCTCAGCAAGGGCAAGGGGG  
20 CGTCCAAGCCAAGGTCCAAGCGCGATCCCTCACCCCTGCACCAATGTCCAACACCGAC  
21 AGTAATCCACGCTCCGTACGTCGCAAGCAGGCAATCATGCGTGTCAAACATGACTGAAC  
22 TGCCCCGCTGCCGTGAAGGGCATCGTCACGAAGTTTGTTCATGGTGTATCGGTG  
23 TATATGCGCACGATTGTTGCCGACACAACGGACACAACGCTACCGGCTGCCTACTGTTGT  
24 ATAAGGGTCATAGAATCTAGCGTTATCCTCCACGAGCGTGTGGCAGCCTGCTGGCGTGG  
25 ACGAGCTGTATGCGTTGTTCCGTTATGTGCGTCAAACGCCCTCGAGCGCTGCCCGAA  
26 CAATGCGTACTAGTATAGGAGCCATGAGGCAAGTGAACAGAAGCAGGGCTGACTGGTCAAG  
27 GCGCACCGATAGGGCTGACGAGCGTGTGACGGGTGTACCGCCGAGTGTCCGCTGCATT  
28 CCGCCGGATTGGGAAATCGCATGGTCGCGCATAGGCAAGCTCGCAAATGCTGTCAGCTT  
29 ATCTTACATGAACACACAAACACTCTCGCAGGCACTAGCCTCAAACCCCTCGAAACCTTT  
30 TCCAACAGTTACACCCCAATTGGACGCCGCTCCAAGCTCGCTCCGTTGCTCCTTCATC  
31 GCACCCACCTATTATTCATAATCGTAGACCGACAAGATGTCGGCGCTCGTGTGAAGC  
32 CCTGCGCGGCCGTGTCTATTGCGGGCAGCTCCTGCAGGGCGCCGAGTCGCCCGCG  
33 CTCCGCTCGCAGCCAGCACCGTGCAGTAGCCCTTGCAACACTTGAGGCCCGCACGCC  
34 GCCTAGGGTGAGGGCAGCGCAGTGAACCGCAGTTGCGATGGTCAGTTGCGCTTTGCG  
35 GAAGCCTCCGAAACGTCCCAGGTTCAAACGGCCCCGAATGACCACACCCATATGGCC  
36 ACTGGGAATAATAACGCAGCAACGTCGCTGCGGGCTGCCGACCCGCTGCGGAGGC  
37 CTTTGAGTCATGTCCAGCAGCGCTGCCGAGCTGGAGCGAACGGCCGAGCGAGCGC  
38 ACGCATTGTTGGTCAAGTCTCCACTCAGTCGACCCCCCACACGGCGTAGGGTCT

1 GAAGTCCACCAACTCCTCACACACCCCCAAGGAAGGGACGTAAGCCCCCTGGCTACGCTT  
2 TACCCAGCAGCCACAGCGACAGAGCGCCCCAACATAGGCTCGAGATAGAACGCACCTGAA  
3 CTGTGACACTTACAATGGAAAGGAACCTCGGGATGCCCTAAAGTCAGCATTGTGACG  
4 AGTCGGCTCGGAATCCCCATCGGCGCCCGTCCGTTCTCATCACCGCCTGAAACGGC  
5 GCACGCGCAATAGTGCACACTTGATGCCCTTCGGTCCAACGCCCTGTCAGCTAACACTT  
6 TCCAGGGCCAGCGCGGACTCGAGAACCCCTTTCTGGCAACCTGGTTGGCTGGACCT  
7 GGCAACCTTGGTTGGCTGGCACCAACCTTGACCCACATAAAATCTCTCCCCCCCCCTT  
8 ATGCCACAGCCAAGCCCAGGACGACCCACGCGCAAGCACGTCTGCGTCAGGTGGCT  
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10 AAGCAGCTGGCGAGGGCCTCGCCGCTCGGCTTGACGAGGTAGGTGCGCTCGCTGCT  
11 GCAGTGCCAACACGCATCTTCAGCTACCGCCCTCCAGTCAGCACCTGGCATGCATGC  
12 TTGGCGCATCTGCCGCTCATTGCCGCTCGCGGCTCGCCGCTGCCATCAAGCCTG  
13 CCTGCCCTGCCGCCCTCACGCCAGGTGTTGACACGCTGTTGGCGCCGACCTG  
14 ACCATCATGGAGGAGGGCAGCGAGCTGCTGCACCGCCTACCGAGCACCTGGAGGCCAC  
15 CCGCACCGACGCCGCTGCCATGTTACCAAGCCTGCTGCCCGGCTGGATCGTAGC  
16 AGCGCGCGTGCTTGCTTAGGGCCCATAACCTGCTTGGGCCCCGGCTGGATCGCTC  
17 CACCTACCTGCAACATGTACGTGCTACGGTATTGTCGATGTCATGACGATTGGGT  
18 CGACCTTACCTTGCCTTGTGCTTCTCCACCCCCACCCGCCTTTCCTGCCGGCC  
19 CCCCTCGCGCAGCTATGCTGGAGAAATCTTACCCGGACCTGATCCCACGTGAGCAGCT  
20 GCAAGAGCCCCAGATGATGCTGGCGCCATGGTCAAGTCCTACCTAGCGAAAAGAAGG  
21 GCATCGGCCAAAGGACATGGTATGGTCCATGCGCAGCGCAAGCAGTCGG  
22 AGGCTGACCGCGACTGGTCTGTGTGGACGCCAACCTGCGCCAGCTGGACCACG  
23 TCATCACCAACCGTGGAGCTGGCAACATCTTCAAGGAGCGCCGATCAACCTGCCGAGC  
24 TGCCCGAGGGCGAGTGGACAATCCAATGGCGTGGCTCGGCGCCGGTGTGTTCG  
25 GCACCAACCGCGGTGTATGGAGGCCGCTGCCACGGTGGGTCTGTGAGAGCCGGTTG  
26 ATTGGCCCGAGAACGCATACACTTGTGAACCTTGATGCGGATAAGCAAGGCTACC  
27 GATCCCGTCTTTACACCTGTTATCACGTCGCTGAGCAAGCTGTGACACCTGCAGG  
28 CCTATGAGCTGTTACGGGCACGCCGCTGCCGCCCTGAGCCTGAGCGAGGTGCGCGCA  
29 TGGACGGCATCAAGGAGACCAACATCACCATGGTCCCCGGGTCCAAGTTGAGG  
30 AGCTGCTGAAGCACCGCGCCGCCGCGCCGAGGCCGCCGCACGGCACCCCCGGC  
31 CGCTGGCCTGGACGGCGGCCGGCTCACAGCGAGGACGGCAGGGCGGATCACAC  
32 TGCGCGTGGCGTGGCAACGGCTGGCAACGCCAGAAGCTGATCACCAAGATGCAGG  
33 CCGCGAGGCCAAGTACGACTTGTGGAGATCATGCCCTGCCCGGGCTGTGTTGGCG  
34 GCGGCCGCCAGCCCCGCTCCACCGACAAGGCCATCACGCGAGCGGGCAGGCCGCTGT  
35 ACAACCTGGACGAGAAGTGAGCGGGCGCGCTGCTGGATTGGCAGGGAGGGAAAGGGA  
36 CTGCGGGCAGGGTGCGGCGGGAAACGAAATGGCAAGGCTCGAGGTGGAGGGCGGGGT  
37 GGGTTGGGTTACTTGCTACAGGTTGGCGGGCAGGATGTGATGGAAGCAGTGTGGAGGAG  
38 GTGTGCGTAGGGTCCGACGGTATTGCAACGAGCAAAGAGGGCGGCACTCCTGAC

BIOLOGY - DNA

1 ACAATGTGCGCCTGCACGTGCGCTCCTGTTGCTGCCAGGTCCACGCTGCGCCGCAGCC  
2 ACGAGAACCCGTCCATCCGCGAGCTGTACGACACGTACCTCGGAGAGCCGCTGGCCACA  
3 AGGTGGGGGGGGTTGTATACTACCAGCCAAATGACGGGCTGGTCGGGGCGTTGGAGA  
4 GGCAGGGCCGGGAGGGAGGCAGGCTGGGTGTGGGCAACAGCAGGTGAAGGGACGGGGGG  
5 CGCACTGGGCAGGGCGGTACATGCCTGTCTGATAGCTACCCACACGCGACTGTTGCTA  
6 CATGGATGCATGACGTGTGCCGTGTGCTTGACCCCTGCAGGCGCACGAGCTGCTGCACAC  
7 CCACTACGTGGCCGGCGCGTGGAGGAGAAGGACGAGAAGAAGAAGTGAAGGAGCGCCAGAGC  
8 TCTTTGGCGGAGACAGCTCAAAGCGAGGGGGCGTATTAGCAGTACCGTAAATATGCAC  
9 TGATGGGTATGCGGGTGTCTCTTTATATTGAATGGGTAAAATAGGCGCGGGTCA  
10 AATGTTCCCTTTGAGTGGTCACAGCATGGGCACGTGTGCGGAGGCCAGTTGCCCT  
11 CCAGTGACCGCCTCCGGTGTGGCCGCACTGGCCTGGATAATGCACCGGTGGAGGA  
12 TTATGGAAGAGGGGACTCAGAAGGCTCATTATTGGACAATGCCTGGTCTTCCACATT  
13 GGTGTGAGCGCGGCTCCGCATAGGCTGTTCACTGCACGCTGGCATTAGGCGTAGGTACTG  
14 GCATGAGGGAGCGCGGCTTGCTAACGAATGGCGTATCCCTCCAGGGCACGTCGGAATGG  
15 CGCGTCCCCATCAACGAAATTCTGGCCTTCATCGTTCTGGATATTGAAGCTGCACAA  
16 ACCTGCATTCTATTGCTTACACGTCCCCAATCTGGTTGGAAGCTAAACATGTT  
17 TGGGAACAATTCATCTTAAAGCGTGTGGGGTTGAGGATGCGCACGTTGTGCGCTGG  
18 TGGGTGGCGGGAACGTGGTAGCATTAGGCTAGCTGGCATAACGACAACGGGGCCCGTG  
19 AGGATTGAGCACTGACTCGCGAACTTATGAACGTAGCGCTTATACCCACCGTATGCGA  
20 TTGACGTTGGTGTAGGCAACCAGGCGGTAGGAAGGCGGAGAGATGCATTGCAAACGCCTG  
21 TAAAAGAACGGCATAGCTACTAGACACTCTGATGTGGACCCTTGGCGCAGCCACGACAGG  
22 AGAGGTGTGCATCAGCGCTTGTAAAGCACGCACCTCTGAGAAAAAAA  
23

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2 (2) INFORMATION FOR SEQ. ID NO.3:  
3 (i) SEQUENCE CHARACTERISTICS:  
4 (A) LENGTH: 3265 BASE - #PAIRS  
5 (B) TYPE: NUCLEIC ACID  
6 (C) STRANDEDNESS: SINGLE  
7 (D) TOPOLOGY: LINEAR  
8 (ii) MOLECULE TYPE: GENOMIC DNA  
9 (xi) SEQUENCE DESCRIPTION: SEQ. ID NO.3

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11  
12 GCGGAATTACTAGTGATAAGCAGTGGTAACAACGCAGAGTCGCGGGCAGGGACTCGATCA  
13 GTTGTATGTGTTGCCCGTGGTGCAGTCAGCAGGGCGTGCAGGCATGTTGCT  
14 GTCCGTGCAGCAGGGCCAACATCTGAGTGTGATTGTCCTCCAACACACCTCAGGCCAAGCTG  
15 CCTCACGGCAGCAGGCTCTGGATGAGCTGCCAACGCCAAGGGAGAGCAGGAGGTTGATG  
16 ATCGCGCAAATCGCCTCCGCTGTTCGTGCCTATTGCTGAGACCATTGGCTGGCCCCA  
17 GGAGATGTCACCATTGGGCAGCTCGTACTGGCTGCGTATGCTTGGCTTGATTATGTC  
18 TTTGGTAAGCAGCAGCATCTGCATTACACTTGCAAGTTGGTCGTCACATGCACCTAATCA  
19 GATGTTAGCCCTTGGAACATTGGCCTGTTGGTCTACCTGACCAACTGCTGCCTG  
20 GTATGCCAACCTGTGAAGCTGCGTGTGGCGTTGCTACAGACACCCCTTTGGTCT  
21 GACCTGACCATTATGGAGGAGGGAACGGAGCTGCTGCATCGCCTGCAGGACCATCTGGAG  
22 CAGCACCCCAACAAGGAGGTGAGTAAGCCAGCTGGGTGGTCTACCACCCAGCACAGCTC  
23 GAGACAGCAGCCTGCACTAACACTCACAAACGTCAGCTCCTCTTAAATGAGCGGACCA  
24 AACCTGTGAGTGGCACCATGTCAGCTGCCCTCGCACCAAAGCACAGCATGGCCTGTCTG  
25 TCGTCGATTGCCACATGAGTGTGTTGCGTTGTTATGCAAGTGCCTGAACAAACTGCATATT  
26 CCTGTGCTCTCGCCTCGCACAGGAGCCACTGCCATGTTCACCAAGTTGCTGCCAGG  
27 CTGGGTTGCCATGGTTGAAAAGAGCAATCCTGAGCTCATCCCCTACCTGTCATCTTGCAA  
28 GTCGCCTCAGATGATGCTTGGGCCGTTATCAAGAACTACTATGCACAGCAGGTTGGAGT  
29 GCAGCCCAGTGCACATCTGCAACGTCAGTCAGTCATGCCATGCGTACGCAAGCAGGGAGAGGC  
30 TGACCGGGAGTGGTTAACACCCACAGGTGGCGCAGGCAGTGTATCACCAGTACTGGTGT  
31 TCTCCGTGTTGTCAGTGTGTCAGTGTGTTAGAGGCTGGATACTCTCCAGTCAGTGCTGATG  
32 CAGAGTGGCGGCTGGTGTGCAGCAGCAGCCAAAGAACACTGAGAGCTGGCAATTCAATG  
33 GGCTTGCTGCTTACTGTCAGCTTCCCTTCTGCAGGTGCAGTGACATACGGTCTGCAT  
34 CAAGGCTCAAACATGTTGTATGTGATGTTGCAATTGCAGGCCATTGCCGTGA  
35 TGTTGATCATGTGGTACTACTGCTGAGGTTGGTAAGATATTCCGGAGCGTGGCATCAA  
36 GCTGAATGAGCTGCCAGAGAGCAACTTGACAACCCATTGGCGAGGGCACAGGTGGTGC  
37 TCTGCTTTGGCACCCTGGAGGTGTCATGGAGGCAGCACCTCGCACAGTCTATGAAGT  
38 GGTGAGTGGTACTGCTTCAGTCAGTGACCAACCAAGCTACTGCAATTGCATAG

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1 CGCCAGTTCTGCCATCAATGACCTGCTTGTAAAGTAGCTGATACTTACCAACCACTG  
2 GTATTGTGGTATCCTGCCATAGCACATGCCTCTCCTGCTGTTGGCTTATCAACCTG  
3 TTGGTCTATGTGTCAGTGCTGCGAGGTTACCCAGAAGCCCATGGTCGTGTTGACT  
4 TTGAGGAGGTGCGAGGCCTTGAAGGAATCAAGGAGGCAGAGATCACACTCAAGCCAGGAG  
5 ACGACAGCCCATTCAAAGCCTTCGCAGGAGCTGATGGGCAGGGCATCACGCTCAAGATTG  
6 CAGTAGCCAATGGGCTTGGCAATGCCAAGAACGCTCATCAAGAGCCTGTCAGAGGGCAAGG  
7 CCAAGTATGATTTCATTGAGGTATGGCATGCCCTGGTGGCTGCATTGGCGGAGGCGGTC  
8 AGCCCCCGCAGTACTGACAAGCAGATCCTGCAGAACGCCAGCAGGCTATGTACAACCTGG  
9 ATGAGCGCAGTACCATCCGCCGCAGCCATGATAACCCATTCATCCAGGCCTGTATGACA  
10 AGTTCCCTAGGCGCACCCAACAGCCACAAGGCACATGATCTGTCACACACACTATGTGG  
11 CAGGTGGAATTCCAGAGGAGAACGTGAGGGACCGAGGCCGGAGTGGTATTAGTGTAGA  
12 GCTAGGCAGCAGGGATCTGGCGCATTGGGTGCTGTTGGTTGGCATCAAAGATA  
13 TGATGAATGTACAATCTATTGGTTCTTGTATCTCATTGACTGCTGCTGGTGGAGG  
14 TATGGGCAGGAAGAACGCCGCATCAATGCATGTGAACTAGGTGGCTCACATATGAACC  
15 CTATCTGGATGTTAACGTAACCTGAAACAATAGTGCATGGCTCTGCATGGCTAACAAAC  
16 CTGTCTTCAGAGCAGGTGTATTCCACACCATTGATTACCTACCACTCTGTAGTTCAA  
17 GTGGTCAAATTGAATGTCTATGGCAGCTACGCCCTGCAGTCATAGTCTATGAAGGTTCA  
18 CCAGAGTCCATGTCCTCATATTTGTTTATATGCCCTGATTATGCCCTTGAACCA  
19 TGCTCAATGCACACAAGTTGGTCGCAGGACAGGCCATCGTACATCTCAATTTCAGAA  
20 CCTTGTCAAGTGCAGGCATTGCCCTATTGACTCTTGCAGTCCTGTTCACCCCTGCTACTG  
21 CCTTGCAATGCATCTGTTTGCAAGCAACAGCTCATGCATTGCAATCGATCATCACGTA  
22 CATCCGTGCCATATTACATGGTTTGACTTGCAAATCAACCACCAGGCAGTGGTAAAT  
23 TGCCAGGCTGGGTGCACTTGGGCCATTGGCAGCCCTTGTGGCGAGCTTGCTGCA  
24 GGGCCAAGCTGAGTGCATCAGACTCAGCAGGCTGCTGGCACTGTAGAATGCTAAAAA  
25 GGGCATTCAACTACATGTCATTATTAGGTTGACCTGAGACAGCCGTAAGAATATCATTGT  
26 GTGCTGAACCTAGTCGTCAATGTCATGCCATGATGTGTTCAAGGAGTGGATAAGGGAG  
27 GTCCTTCCTCAATTACATGCCATTCAAGAGACTTCAATATCTGTTGTCAGTGAATTGTT  
28 GTGTTGCTTAATCCAGTGGTTCTC  
29

1   (2)   INFORMATION FOR SEQ. ID NO.4:  
2   (i)   SEQUENCE CHARACTERISTICS:  
3   (A)   LENGTH: 448 AMINO - #AMINO  
4   (B)   TYPE: AMINO ACID  
5   (C)   STRANDEDNESS: SINGLE  
6   (D)   TOPOLOGY: LINEAR  
7   (ii)   MOLECULE TYPE: **PROTEIN** PROTEIN  
8   (xi)   SEQUENCE DESCRIPTION: SEQ. ID NO.4  
9  
10

11  
12 MPEWQPGRYAVSRPPVNRRAVVAAERRRLVVRAAGPTAECDCPPAPAPKAPHWQQTLD  
13 ELAKPKEQRKVMAQIAPAVRVAIAETMGLNPGDVTVGQMVTGLRMLGFDYFDTLFGAD  
14 LTIMEEGTELLHRLQDHLEQHPNKEEPPLPMFTSCCPGVAMVEKSNEELIPYLSSCKSPQ  
15 MMLGAVIKNYFAAEAGAKPEDICNVSVMPCVRKQGEADREWFTTGAGGANVDHMTTAE  
16 LGKIFVERGIKLNDLQETPFDPNVGEGGGVLFGTGGVMEAALRTVYEVVTQKPLDRIV  
17 FEDVRGLEGIKESTLHLTPGPTSPFKAFAGADGTGITLNIAVANGLGNAKKLIKQLAAGE  
18 SKYDFIEVMACPGCIGGGQPRSADKQILQKRQAAMYDLDERAVIRSHENPLIGALYE  
19 KFLGEPNGHKAHELLHTHYVAGGPDEK  
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1  
2 (2) INFORMATION FOR SEQ. ID NO.5:  
3 (i) SEQUENCE CHARACTERISTICS:  
4 (A) LENGTH: 497 AMINO - #ACIDS  
5 (B) TYPE: AMINO ACID  
6 (C) STRANDEDNESS: SINGLE  
7 (D) TOPOLOGY: LINEAR  
8 (ii) MOLECULE TYPE: PROTEIN  
9 (xi) SEQUENCE DESCRIPTION: SEQ. ID NO.5

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11  
12 MSALVLKPCAAVSIRGSSCRARQVAPRAPLAASTVRVALATLEAPARRLGNVACAAAAPA  
13 AEAPLSHVQQALAEELAKPKDDPTRKHVCVQVAPAVRVAIAETLGLAPGATTPKQLAEGLR  
14 RLGFDDEVFDTLFGADLTIMEEGSELLHRLTEHLEAPHSDEPLPMFTSCCPGWIAMLEKS  
15 YPDLIPIVSSCKSPQMM LAAMVKS YLA EKKGIAPKDMVMV SIMPCTRK QSEADRDWFCVD  
16 ADPTLRQLDHVITTV EGNIFKERGINLAELPEGEWDNPMGVSGAGVLFGTTGGVMEAA  
17 LRTAYELFTGTPLPRLS LSEVRGM DGIKETNITMVPAPGS KFEELLKHRAAARA EAAAHG  
18 TPGPLAWDG GAGFTSEDGRGGITLRVAVANGLGNNAKKLITKM QAGEAKYDFVEIMACPAG  
19 CVGGGGQPRSTDKA ITQKRQAALYNLDEKSTLRRSHENPSIRELYDTYLGEPLGHKAEL  
20 LH THYVAGGV EEKDEKK  
21

1  
2 (2) INFORMATION FOR SEQ. ID NO.6:  
3 (i) SEQUENCE CHARACTERISTICS:  
4 (A) LENGTH: 436 AMINO - #ACIDS  
5 (B) TYPE: AMINO ACID  
6 (C) STRANDEDNESS: SINGLE  
7 (D) TOPOLOGY: LINEAR  
8 (ii) MOLECULE TYPE: PROTEIN  
9 (xi) SEQUENCE DESCRIPTION: SEQ. ID NO.6

10

11

12 MCCPVVASRAGRAGRHVAVRAAGPTSECDCPPTPQAKLPHWQQALDELAKPKESRRLMIA  
13 QIASAVRVIAETIGLAPGDVTIGQLVTGLRMLGFDYVFDLFGADLTIMEEGTELLHRL  
14 QDHLEQHPNKEEPPLPMFTSCCPGVAMVEKSNPTELIPYLSSCKSPQMMLGAVIKNYAQO  
15 VGVQPSDICNVSVMPVCVRKQGEADREWFTNTGAGLARDVDHVVTAEVGKIFLERGIKL  
16 ELPESNFDNPIGETGGALLFGTTGGVMEAALRTVYEVVVTQKPMGRVDFEVRGLEGIKE  
17 AEITLKGDDSPFKAFAGADGQGITLKIAVANGLGNNAKKLIKSLSEGKAKYDFIEVMACP  
18 GGCIGGGGQPRSTDQILQKRQQAMYNLDERSTIRRSHDNFTIQALYDKFLGAPNSHKAH  
19 DLLHTHYVAGGIPEEK

20

1  
2 (2) INFORMATION FOR SEQ. ID NO.7:  
3 (i) SEQUENCE CHARACTERISTICS:  
4 (A) LENGTH: 2636 BASE - #PAIRS  
5 (B) TYPE: NUCLEIC ACID  
6 (C) STRANDEDNESS: SINGLE  
7 (D) TOPOLOGY: LINEAR  
8 (ii) MOLECULE TYPE: mRNA  
9 (xi) SEQUENCE DESCRIPTION: SEQ. ID NO.7

10

11

12 ACAACAGAGCGTTAGAGATACTCATAGCTGCAACTAGACTACCTTACCCCTAACGAAAT  
13 CACCCCTAGACCGACAGTGTGGAGTAGCTGCGACCCAAACGTGATGGCGAGCGGATTGCT  
14 TCTCAAGCAGCGCTCGGTATGCCTGAGTGGCAACCGGGAGGTCGGTATGCTGTTCTGTC  
15 CGCCCCGCCAGTGAAACAGCGGGCTGTGGTGGCAGCAGAGCGCAGGCGCCCTTGTGCGG  
16 GCAGCTGGCCCAACAGCAGAATGTGATTGCCACCAGCTCCCGGCCAAGGCCCCGCAC  
17 TGGCAGCAGACGCTAGATGAGCTAGCCAAGCCTAAGGAGCAGCGCAAGGTGATGATGCC  
18 CAGATCCGACCACAGCAGTGCCTGGCTATTGCAGAGACCATGGGACTCAACCCTGGGGAT  
19 GTGACAGTTGGCCAGATGGTGACCGGCTGCGCATGCTGGGCTTGATTATGTGTTGAC  
20 ACGCTTTGGTGTGACCTCACCATCATGGAGGAGGGCACAGAGCTACTGCACAGGCTT  
21 CAGGACCACCTGGAGCAGCACCCCAACAAGGAGGAGCCGCTGCCATGTTACCAGCTGC  
22 TGCCCTGGCTGGGTGCCATGGTGGAGAAGTCAACCCCGAGCTCATCCCCTACCTGTCT  
23 TCCTGCAAGTCGCCCCAGATGATGCTGGCGCAGTCATCAAGAACTACTTCGCTGCCGAG  
24 GCCGGGCCAAGCCTGAGGACATCTGCAACGTGAGCGTATGCCCTGCGTGCAGCAG  
25 GGCGAGGCTGACCGCGAGTGGTTCAACACCACAGGGCTGGCGCGAACGTGGACCAC  
26 GTCATGACAACCTGAGAGCTGGCAAGATTTGAGCGCGGAATCAAGCTGAACGAC  
27 CTGCAGGAGACGCCCTTGACAACCCCGTCGGCGAGGGCAGCGCGGCGTACTGTTCGC  
28 ACCACTGGAGGCGTGATGGAGGCGCGTGCACCGTGTACGAAGTGGTCACACAGAAG  
29 CCTTGAGCGATCGTCTTGAGGACGTGCGCGCCTGGAGGGCATCAAGGAGTCCACG  
30 CTGCACCTCACCCCAAGGCCAACAGCCCTTCAGGCCCTTGCAAGGCGCAGACGGCACC  
31 GGCATCACCCCAACATCGGGTGCACAGGCCCTCGCAATGCCAAGAAGCTCATCAAG  
32 CAGCTGGCTGCAGGCGAGAGCAAGTACGACTTCATCGAGGTATGCCCTGCCCGCGC  
33 TGCATCGCGGCCGGCCAGCCGCGCAGCGCGAACAGCAGATCCTGCAGAACGCCAG  
34 GCGGCCATGTACGACCTGGACGAGCGCGCGGTGATCCGGCGAGCCACGAGAACCCGCTG  
35 ATTGGCGCGCTGTATGAGAAGTTCTGGCGAGCCAACGGCCACAAGGCGCACGAGCTG  
36 CTGCACACGCACTACGTGGCCGGCGTGCCTGAGAAGTGAAGCGGTGGCTGGTGA  
37 TGCTGGCTGCAGCGAACAGAAACGGTGGCATGGTGGTGGTGGTGCATGGTGGTGT  
38 CGCTCGTGCAGCATGGTGGTTGCGGTTGTGATGTTGGCATGCTGCACGGAGGTGTT

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1 GCATGGTTATGGATATGGTTCAGGTGCTGTGCTGCCATGCCATAAGCACCTTGTGA  
2 CCCTGTGCGATGCATAAAATAGATATTGCCATTGGTTCAGGCTGGTGGCAGTGG  
3 CTGGTTAACAGGGGAGTGTGTGTTGTCTTCATTGTCGGTGTGTTCTTGCTGCA  
4 TGTATTGTAGTGTAAATGGTTATGCACGCCATGCGCACCGCCTCGTGTGCGAC  
5 AGTGCACAACGCACAGCGTGTACAGCTGCAGGACGTTGCAGGAAAAACACTTGTACTG  
6 GTGACGGCTGAAGCAGCGATGATGGAGAGAATGGATTGCTGCTATCTCACAGGGCGTGG  
7 CTGCTGCATGCCATGGCATGCCATGTCCTGTTGCACGCAATTGCCCTGCGTAATTTGATAGTG  
8 GCAGCACTGAGGCAGCTGCAAGGCCTCTGCCAGCGCTGTTGTGTCCTATCTGTGTT  
9 ACAGGCAGCTGCATTGAAGGCAAGGGGTTGCCATCACTCACTTGATCACTCACTT  
10 GAAGCAGGCTCCATCCATGTATTGGTCAACGCACTGAAGTCTTTTGTCACCAGGC  
11 AGCAGTATTGTGTGCACACTACTTGCTATGGAGATGACAGCAGCATCAATCTCAAGCATG  
12 ATGAAAGCGTATGTTGTATCAGTGCCCCATTTGCAGACTCTTAAGAGCTTACCTCTC  
13 AGGGGTTGCAGCAGGTGGTGGTCAGCCAGTTGAGGGAGTGTGTGGCTGTTGTCTGCCAC  
14 CATGTGAGTATTGAAACCACCATCCTGAGCTAAGTGTTCAGGCATCTAACCTCATACCC  
15 CGCTACCCCTGCTACTGGGAGTTGTTGTCATTGTATTGGCAGCCGTTACTAATTAGTAA  
16 TGGCGCTTGAGCGAGGCATGTCTGATATGTATGCCCTAGGAGAGTGTGAGCTCAACTCA  
17 ATTCTCATAAGTGTAAAGCCACACAACGGAAAAAAAAAAAAAAAAAAAAAAA  
18

1  
2 (2) INFORMATION FOR SEQ. ID NO.8:  
3 (i) SEQUENCE CHARACTERISTICS:  
4 (A) LENGTH: 2399 BASE - #PAIRS  
5 (B) TYPE: NUCLEIC ACID  
6 (C) STRANDEDNESS: SINGLE  
7 (D) TOPOLOGY: LINEAR  
8 (ii) MOLECULE TYPE: mRNA  
9 (xi) SEQUENCE DESCRIPTION: SEQ. ID NO.7

10  
11

12 ATCTTACATGAACACACAAACACTCTCGCAGGCACTAGCCTCAAACCCTCGAAACCTTT  
13 TCCAACAGTTACACCCAATT CGGACGCCCTCAAAGCTCGCTCCGTTGCTCCTTCATC  
14 GCACCACCTATTATTCTAATATCGTAGACCGACAAGATGTCGGCGCTCGTGTGAAGC  
15 CCTGCAGGCCGTGTCTATT CGGGCAGCTCCTGCAGGGCGGGCAGGTGCCCCCGCG  
16 CTCCGCTCGCAGCCAGCACCGTGC GTAGCCCTTGCAACACTTGAGGCGCCCGCACGCC  
17 GCCTAGGCAACGTCGTTGCGGGCTGCCGCACCCGCTGCGGAGGGCCTTGAGTCATG  
18 TCCAGCAGGCGCTCGCCAGCTGCAAGGCCAAGGACGACCCACGCCAAGCACGTCT  
19 GCGTGCAGGTGGCTCCGGCCCTCGTGTGCTATTGCCGAGACCCCTGGCCTGGCGCCGG  
20 GCGCCACCACCCCAAGCAGCTGGCCGAGGGCCTCCGCCGCGCTGGCTTGACGAGGTGT  
21 TTGACACGCTGTTGGGCCACCTGACCATCATGGAGGAGGGCAGCGAGCTGCTGCACC  
22 GCCTCACCGAGCACCTGGAGGCCAACCGCACTCCGACGAGCCGCTGCCATGTTACCA  
23 GCTGTCGCCCCGGCTGGATCGCTATGCTGGAGAAATCTTACCCGACCTGATCCCCTACG  
24 TGAGCAGCTGCAAGAGCCCCAGATGATGCTGGCCCATGGTCAAGTCCTACCTAGCGG  
25 AAAAGAAGGGCATCGGCCAAGGACATGGTATGGTCCATGCCCTGCACGCCA  
26 AGCAGTCGGAGGCTGACCGCACTGGTCTGTGTGGACGCCACCCACCCCTGCCAGC  
27 TGGACCACGT CATCACCAACCGTGGAGCTGGCAACATCTCAAGGAGCGCGCATCAACC  
28 TGGCCGAGCTGCCGAGGGCGAGTGGGACAATCCAATGGCGTGGCTGGCGCCGGCG  
29 TGCTGTCGGCACCAACCGGGTGTATGGAGGCCGCTGCCACGCCATGAGCTGT  
30 TCACGGCAGGCCCTGCCCGCCTGAGCCTGAGCGAGGTGCGCGCATGGACGGCATCA  
31 AGGAGACCAACATCACCATGGTCCCCGCCCGGTCAAGTTGAGGAGCTGCTGAAGC  
32 ACCGCGCCGCCGCGCGCCGAGGCCGCCGCGCACGGCACCCCGGGCGCTGGCGCCGG  
33 ACGGCGCGCGGGCTCACAGCGAGGACGGCAGGGCGGCATCACACTGCCGTGGCG  
34 TGGCCAACGGGCTGGCAACGCCAAGAAGCTGATCACCAAGATGCAGGCCGGAGGCCA  
35 AGTACGACTTTGTGGAGATCATGGCCTGCCCGCGGCTGTGTGGCGGCCGGCCAGC  
36 CCCGCTCCACCGACAAGGCCATCACG CAGCGAGCGAGGCCGCTGTACAACCTGGACG  
37 AGAAGTCCACGCTGCCGCAGCCACGAGAACCCGTCCATCCCGAGCTGTACGACACGT  
38 ACCTCGGAGAGCCGCTGGGCCACAAGGCCACGAGCTGCTGCACACCCACTACGTGGCG

1 GCGGCCTGGAGGAGAAGGACGAGAAGAAGT GAGGAGCGCCAGAGGCTTTGGCGGAGA  
2 CAGCTCAAAGCGAGGGGGCTATTAGCAGTACCGTAAATATGCACTGATGGGTGATGCG  
3 GGTGTCCTCCTTATATTGAATGGGTCAAATAGGCGCGGGTCAAATGTTCCCTTT  
4 GAGTGGTGTACAGCATGGGCACGTGTGCGGAGGCCAGTAGGCTGTTCACTGCACGCTG  
5 GCATTAGGCGTAGGTACTGGCATGAGGGAGCGCGGCTTGCTAACCGAATGGCGTATCCCT  
6 CCAGGGCACGTCGGAATGGCGCGTCCCCATCAACGCAAATTCTTGGCCTTCATCGCTTCT  
7 GGATATTGAAGCTGCACAAACCTGCATTCTATTGCTTGTACACGTGCCCCAATCTG  
8 GTTCCAAGCTAAACATGTTGGAACAAATTCACTTAAAGCGTGTGGGGTTGAGGA  
9 TGCACGTTGTGCGCTGGTGGTGGCGGGAACGTGGTAGCATTAGGCTAGCTGGCA  
10 TACGACAACGGGGCCGTGAGGATTGAGCACTTGACTCGCGAACTTATGAACGTAGCGCT  
11 TTATACCCACCGTATGCGATTGACGTTGGTAGGCAACCAGGCGGTAGGAAGGCAGGAGA  
12 GATGCATTGCAAACGCCGTAAAAGAACGGCATAGCTACTAGACACTCTGATGTGGACCC  
13 TTGGCGCAGGCCACGACAGGAGAGGTGTGCATCAGCCGCTTGTAAAGCACGCACCTCTGAG  
14

1  
2 (2) INFORMATION FOR SEQ. ID NO. 9:  
3 (i) SEQUENCE CHARACTERISTICS:  
4 (A) LENGTH: 2421 BASE - #PAIRS  
5 (B) TYPE: NUCLEIC ACID  
6 (C) STRANDEDNESS: SINGLE  
7 (D) TOPOLOGY: LINEAR  
8 (ii) MOLECULE TYPE: mRNA  
9 (xi) SEQUENCE DESCRIPTION: SEQ. ID NO. 9

10  
11  
12 GCGGAATTACTAGTGATAAGCAGTGGTAACAACGCAGAGTCGCGGGCAGGGACTCGATCA  
13 GTTGTATGTGTTGCCCGTGGTTGCAAGTAGGCACGCAGGGCGTGCAAGGCATGTTGCT  
14 GTCCGTGCAGCAGGCCAACATCTGAGTGTGATTGTCCTCCAACACACCTCAGGCCAACGCTG  
15 CCTCACTGGCAGCAGGCTCTGGATGAGCTGCCAAGCCCAGGGAGAGCAGGAGGTTGATG  
16 ATCGCGCAAATCGCCTCCGCTGTTCGTGCCTATTGCTGAGACCATTGGCTTGGCCCA  
17 GGAGATGTCACCATTGGCAGCTCGTACTGGCTGCGTATGCTTGGCTTGATTATGTC  
18 TTTGACACCCCTGTTGGTGCACCTGACCATATTGGAGGAGGGAACGGAGCTGCTGCAT  
19 CGCCTGCAGGACCATCTGGAGCAGCACCCAAACAAGGAGGAGCCACTGCCATGTTCACC  
20 AGTTGCTGCCAGGCTGGGTTGCCATGTTGAAAAGAGCAATCCTGAGCTCATCCCCTAC  
21 CTGTCATCTTGCAAGTCGCTCAGATGATGCTTGGGCCGTTATCAAGAACTACTATGCA  
22 CAGCAGGTTGGAGTGCAGCCCAGTGCACATCTGCAACGTGTCAGTCATGCCATGCGTACGC  
23 AAGCAGGGAGAGGCTGACCGGGAGTGGTCAACACCAACAGGTGCAGGCCATTGGCCGTGAT  
24 GTTGATCATGTGGTACTACTGCTGAGGTTGGTAAGATATTCTGGAGCGTGGCATCAAG  
25 CTGAATGAGCTGCCAGAGAGCAACTTGTACAACACCCATTGGCGAGGGCACAGGTGGTGC  
26 CTGCTTTGGCACCACTGGAGGTGTCATGGAGGCAGCACTCGCACAGTCTATGAAGTG  
27 GTGACCCAGAAGCCATTGGTCGTGTTGACTTTGAGGAGGTGCGAGGCCATTGAAGGAATC  
28 AAGGAGGCAGAGATCACACTCAAGCCAGGAGACGACAGCCATTCAAAGCCTCGCAGGA  
29 GCTGATGGCAGGGCATCACGCTCAAGATTGCACTAGCCAATGGCTGGCAATGCCAAG  
30 AAGCTCATCAAGAGCCTGTCAGAGGGCAAGGCCAAGTATGATTCTATTGAGGTGTCATGGCA  
31 TGCCCTGGTGGCTGCATTGGCGAGGCCGTAGCCCCGCACTGACAAGCAGATCCTG  
32 CAGAACGCCAGCAGGCTATGTACAACCTGGATGAGCGCAGTACCATCCGCCAGCCATT  
33 GATAACCCATTCATCCAGGCGCTGTATGACAAGTCTAGGCGCACCCAAACAGCCACAAG  
34 GCACATGATCTGCTGCACACACACTATGTGGCAGGGTGAATTCCAGAGGAGAAGTGAGGG  
35 ACCGAGGCCGGAGTGGTGTATTAGTAGAGCTAGGCAGCAGGGATCTGGCCGCATTG  
36 GGTGCTGTTGGTTGGCATCAAAGATATGATGAATGTACAATCTATTGGTTCTTT  
37 GTATCTCATTGACTGCTGCTGGTGGAGGTATGGCCAGGAAGAAGCCGCATCAATG  
38 CATGTGAACTAGGTGGCTCCACATATGAACCCATTCTGGATGTTAAGGTACCTGAAACA

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1 ATAGTGCATCGGCTCTGCATGGCTAACAAACCTGTCTTCAGAGCAGGTGTATTCCACACC  
2 ATCTTGATTACCTACCACTCTGTAGTTCAAGTGGTCAAATTGAATGTCTATGGCAGCTA  
3 CGCCTGCAGTTCATAGTCTATGAAGGTTCACAGAGTCCATGTCCCTCATATTTTGT  
4 TTTATATGCCTTGATTATGCCCTTGAACCAGTCAATGCACACAAGTTGGTCGCAGGA  
5 CAGGCGGCATCGTACATCTCAATTTCAGAACTTGTCACTGCAGTGCAGGCATTGCCTTATTGTA  
6 CTCTTGAGTCCTGTTCACCCCTGCTACTGCCTGCATGCATCTTGTGTTTCAAGCAA  
7 CAGCTCATGCATTGCAATCGATCATCACGTACATCCGTGCCATATTCACATGGTTTGAC  
8 TTGCAAATCAACCACCAGGCAGTGGTAAATTGCCAGGCTGGGTGCACTTGGGCCATT  
9 GGGCAGCCCTTTGTGGCGAGCTTGCTGCAGGGCCAAGCTGAGTGCATCAGACTCAGCA  
10 GGCTGCTGCTGGCACTGTAGAATGCTAAAAGGGCATTCAACTACATGTCATTATTAGGT  
11 TGACCTGAGACAGCCGTAAGAATATCATTGTGTGCTGAACCTAGTCGTCAATGTCATGCC  
12 ATGATGTGTGTTCAAGGATGGATAAGGGAGGTCTTCAATTACATGCCTTCAAGA  
13 GACTTCAATATCTGTTGTCAGTGACTTGTTGTGTTGCTTAATCCAGTGGTTCTCAAAA  
14 AAAAAAAAAAAAAAAA  
15